```
NNN
NNN
          NNN
                                                        PPP
PPP
PPP
PPP
PPP
NNN
NNN
NNN
NNNNN
NNNNN
NNNNN
       NNN
              NNN
                        22222222222
222222222222
NNN
              NNN
NNN
              NNN
NNN
              NNN
```



\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$

NCF VO

: 1

NCF VO4

: 1

XTITLE 'Parse Data and Action Routines'
MODULE NCPPRSACT (IDENT = 'V04-000',
ADDRESSING_MODE(EXTÉRNAL=GENERAL),
ADDRESSING_MODE(NONEXTERNAL=GENERAL)) =
BEGIN

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FACILITY: Network Control Program (NCP)

ABSTRACT:

Data and Action routines for parsing

ENVIRONMENT: VAX/VMS Operating System

AUTHOR: Darrell Duffy , CREATION DATE: 28-August-79

MODIFIED BY:

V03-002 RPG0002 Bob Grosso 29-Jul-1982 Add new routine to supply prompting help.

V03-001 RPG0001 Bob Grosso 30-Jun-1982 Add routines to support channel lists.

V002 TMH0002 Tim Halvorsen 04-Nov-1981
Remove duplicate definition of NCP\$_NXT_STATE as both an external and a global. It should have been one or the other.

V001 TMH0001 Tim Halvorsen 18-Jun-1981 Make all external references longword relative.

D 9 15-Sep-1984 23:51:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:48:15 [NCP.SRCJNCPPRSACT.B32:1 NCPPRSACT V04-000 Parse Data and Action Routines Page (1) : 58 0058 1 !--

NCI

NCPPRSACT V04-000	Parse Data and Action Routines Definitions	E 9 15-Sep-1984 23:51:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:48:15 [NCP.SRCJNCPPRSACT.B32:1	Page 3
60 61 62 63	0059 1 %SBTTL 'Definitions' 0060 1 0061 1 ! 0062 1 ! TABLE OF CONTENTS:		
6123456668901234567890123 888888890123	0059 %SBTTL 'Definitions' 0060	! Signal a command error	
70 71 72	0068 1 INCLUDE FILES: 0070 1 0071 1		
73 74 75 76	0072 1 LIBRARY 'LIBS:NCPLIBRY.L32'; 0073 1 LIBRARY 'SYS\$LIBRARY:STARLET.L32'; 0074 1 0075 1 !		
77 78 79 80	0076 1 ! OWN STORAGE 0077 1 ! 0078 1 0079 1 GLOBAL LITERAL		
81 82 83 84	0080 1 ACT\$C_RNGLSTMAX = 2 * MAX_R 0081 1 0082 1 GLOBAL 0083 1 ACT\$GA_RNGLST : VECTOR [ACT		
86 87 88	0085 1 0086 1 NCP\$_NXT_STATE : VECTOR [2] 0087 1 NCP\$_PRSCMD_DSC : VECTOR [2]	SC_RNGLSTMAX + 1, WORD], ! Channel list vector, ! ACT\$GA_RNGLST [0] contains count ! Next state table and keytable to use !! Descriptor of the parsed command	
90 91 92 93	0089 1 ! 0090 1 ! EXTERNAL REFERENCES: 0091 1 !		
94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109	0093 EXTERNAL LITERAL 0094 NCP\$ AMBCMD, 0095 NCP\$ INVCMD, 0096 NCP\$ CMDCAN, 0097 NCP\$ CMDERR, 0098 NCP\$ FIELDLIM, 0099 NCP\$ PRMRNG, 0100 NCP\$ PRMLEN, 0101 NCP\$ SYNTAX, 0103 LIB\$ SYNTAXERR 0104 SYNTAXERR 0105 LIB\$ SYNTAXERR 0106 EXTERNAL ROUTINE 0107 LIB\$GET_INPUT, 0108 LIB\$GET_INPUT, 0109 LIB\$PUT_OUTPUT, LIB\$PUT_OUTPUT, LIB\$TPARSE;	Error status for ambiguous command Error status for invalid command Command canceled I/O error Too many fields	
101 102 103 104 105	0100 1 NCPS PRMRNG, 0101 1 NCPS PRMLEN, 0102 1 NCPS SYNTAX, 0103 1 LIBS SYNTAXERR 0104 1 ;	Prompt for non-terminal command Parameter range status code Parameter length status code Syntax error status Syntax error status from LIB\$TPARSE	
107 108 109 110	0106 1 EXTERNAL ROUTINE 0107 1 LBR\$OUTPUT HELP. 0108 1 LIB\$GET_INPUT, 0109 1 LIB\$PUT_OUTPUT, 0110 1 LIB\$TPARSE; 0111 1	! Prompting help ! for prompting for help ! for printing help ! The table parser	
113 114 115 116	0112 1 EXTERNAL ROUTINE 0113 1 NCPSWRITE_LINE, 0114 1 NCPSREAD_CMD, 0115 1 NCPSCMD_TERM_Q	! Write a line to sys\$output ! Read a command with continuation ! Is input device a terminal?	

NCI VO

:

15-Sep-1984 23:51:04 14-Sep-1984 12:48:15 Parse Data and Action Routines Definitions NCPPRSACT V04-000 Page VAX-11 Bliss-32 V4.0-742 ENCP.SRCJNCPPRSACT.B32;1 117 118 119 120 121 122 EXTERNAL NCPS CMDBUF DSC : VECTOR, ! Command buffer descriptor ! True for prompting active

NC VO

```
G 9
15-Sep-1984 23:51:04 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:48:15 [NCP.SRCJNCPPRSACT.B32;1
NCPPRSACT
                         Parse Data and Action Routines
NCPSPARSE_CMD Parse Command
                                                                                                                                                                                                              (3)
                                      %SBTTL 'NCPSPARSE_CMD Parse Command'
GLOBAL ROUTINE NCPSPARSE_CMD (INP_DSC, ST_TBL, KEY_TBL, RTN_DSC) =
                         1226789012345678901234545678901234567890123456789012345678901234567890123456789012345678901234567890
                                         FUNCTIONAL DESCRIPTION:
                                                   Calls LIBSTPARSE with the parse state table
                                         FORMAL PARAMETERS:
                                                                            Address of descriptor of line
Address of state table to use
Address of keyword table
Address of descriptor to receive remainder
of command line
                                                   INP DSC
ST TBL
KEY TBL
RTN_DSC
                                         IMPLICIT INPUTS:
                                                   NONE
                                          IMPLICIT OUTPUTS:
                                                   NONE
                                         ROUTINE VALUE:
COMPLETION CODES:
                                                   Return status from LIB$TPARSE is signaled if syntax error
                                         SIDE EFFECTS:
                                                   NONE
                                            BEGIN
                                             MAP
                                                   INP DSC : REF VECTOR [2].
                                                                                                      ! Dsc of input line
! Returned dsc of remainder
                                            LOCAL
                                                                                                      ! Returned status
                                                   PARSE_STATE : BBLOCK [TPASK_LENGTHO]
                                                                                                      ! Parse state table to LIB$TPARSE
                                            NCPS_PRSCMD_DSC [0] = .INP_DSC [0]:
NCPS_PRSCMD_DSC [1] = .INP_DSC [1]:
                                                                                                      ! Save the descriptor of the command
                                            PARSE_STATE [TPASL_COUNT] = TPASK_COUNTO;
PARSE_STATE [TPASL_OPTIONS] =
                                                                                                      ! Set count of arg block
                                                                                                      ! Set for minimum abbreviation
```

NCI

```
NCPPRSACT
V04-000
                                                           Parse Data and Action Routines
NCPSPARSE_CMD Parse Command
                                                                                                                                                                                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742
[NCP.SRC]NCPPRSACT.B32:1
                                                                                                        PARSE_STATE [TPASM ABBREV:

INP_DSC [0]:

PARSE_STATE [TPASL STRINGPTR] =

.INP_DSC [1];
                                                           0179
0180
0181
0183
0185
0186
0187
0188
0190
0191
0193
0196
0197
           ! Setup the initial command string
                                                                                                         NCPS_NXT_STATE [0] = .ST_TBL;
NCPS_NXT_STATE [1] = .KEY_TBL;
                                                                                                                                                                                                                                                ! Setup the first round of state
                                                                                                                       BEGIN
                                                                                                                       STATES,
                                                                                                                                                                                                                                                       Temp for state table address
                                                                                                                                       KEYS
                                                                                                                                                                                                                                                 ! Temp for keyword table address
                                                                                                                       STATES = .NCPS_NXT_STATE [0]:
KEYS = .NCPS_NXT_STATE [1];
                                                                                                                                                                                                                                                ! Set up this round
                                                                                                                       NCPS_NXT_STATE = 0;
                                                                                                                                                                                                                                                ! Zero next round
                                                                                                                       STATUS = LIBSTPARSE (PARSE STATE,! Parse the string .STATES, .KEYS);
                                                                                                                                                                                                                                                    While no error and there is a next
                                                                                                         WHILE .STATUS AND (.NCPS_NXT_STATE [0] NEQ 0) ! round, keep going
                                                                                                          IF NOT .STATUS
                                                                                                                                                                                                                                                 ! Returned an error?
                                                                                                                                   STATUS EQLU LIBS_SYNTAXERR ! Yes, then signal it somehow ! Is it a vanilla syntax error? Yes, then build the arguments | Signal a command syntax error ( (IF .PARSE_STATE [TPASV_AMBIG] THEN NCPS_AMBCMD ! Ambiguous keyword or ELSE NCPS_SYNTAX ! Syntax error ) OR STSSK_SEVERE, ! Severe error to stop .PARSE_STATE [TPASL_TOKENCNT], .PARSE_STATE [TPASL_TOKENCNT], .PARSE_STATE [TPASL_STRINGCNT], .PARSE_STATE [TPASL_ST
                                                                                                          THEN
                                                                                                                        BEGIN
                                                                                                                         IF .STATUS EQLU LIBS_SYNTAXERR
                                                                                                                        ELSE
                                                                                                                                       SIGNAL (.STATUS)
                                                                                                                                                                                                                                              ! Punt the signal of anything else
                                                                                                                        END
                                                                                                         RTN_DSC [O] = .PARSE_STATE

[TPA$L_STRINGCNT];

RTN_DSC [1] = .PARSE_STATE

[TPA$L_STRINGPTR];
                                                                                                                                                                                                                                                ! Return the remainder of the string
                                                                                                          RETURN .STATUS
                                                                                                                                                                                                                                                 ! and the status of the call
                                                                                                          END:
```

NCF

: 1

BNEQ BLBS CMPL

BNEQ

MOVO

00000000G

STATUS, 6\$ STATUS, #LIB\$_SYNTAXERR

PARSE_STATE+8, -(SP)

NC

0206

0218

NCPPRSACT V04-000	Parse Data and Action Routin	nes d	15-Sep-1984 23:51:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:48:15 [NCP.SRC]NCPPRSACT.B32;1	Page 8
		08 A3 FE A3 0000000G 8F 07 0000000G 8F 04 05 09 52 10 AC 63 52	7D 00057 E9 0005B D0 0005F D0 0005F BBB D0 00066 BRB D0 00068 BS: MOVL	0216 0212 0215 0212 0222 0227 0231 0233
; Routine Siz	e: 144 bytes. Routine Base	: \$CODE\$ + (000	

NCE

```
NCPPRSACT
V04-000
                                                                                                  15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
                        Parse Data and Action Routines
NCP$SIG_CMDERR Signal a command syntax error
                                                                                                                                       VAX-11 Bliss-32 V4.0-742
ENCP.SRCJNCPPRSACT.B32;1
                                                                                                                                                                                              Page 10 (4)
    0291
0293
0293
0294
0295
0297
0299
0300
0301
0302
                                           THEN
                                                                                                  ! If so then fix it up
                                                BEGIN
STR_CNT = (.STR_PTR + .STR_CNT)
- (.TKN_PTR + .TKN_CNT);
STR_PTR = .TKN_PTR + .TKN_CNT
                                                                                                    Position string beyond token
                                           ELSE
                                                                                                  ! If not reasonable, then punt it
                                                 BEGIN
TKN_PTR = .STR_PTR;
TKN_CNT = 0
                                                                                                  ! Make token zero length
                                                 END
                                           IF (BFR CNT =
                                                                                                  ! Use some characters on either side
                                                 .TKN PTR - .NCP$ PRSCMD_DSC [1]) ! of the bad token GTRU
                                                 WDO_SIZ
                                           THEN
                                                                                                     But not too many since the command
                                                 BEGIN
                                                                                                    may be quite long
                                                 BFR_PTR = .TKN_PTR - WDO_SIZ;
BFR_CNT = WDO_SIZ
                                                 END'
                                           ELSE
                                                                                                   ! On short commands use it all
                                                 BFR_PTR = .NCP$_PRSCMD_DSC [1]
                                          IF (AFT CNT = STR_CNT)
                                                                                                  ! Compute the after part too
                                                 WDO_SIZ
                                           THEN
                                                                                                  ! for some following context
                                                 AFT_CNT = WDO_SIZ
                                           IF .ACT$GL_PMT_Q
                                                                                                  ! Is prompting active?
                                           THEN
                                                                                                    Signal to allow correction of errors
Signal a syntax error
with all the context
                                                SIGNAL
                                                       (.CODE, 6,
.BFR_CNT, .BFR_PTR,
.TKN_CNT, .TKN_PTR,
.AFT_CNT, .STR_PTR
                                           ELSE
                                                SIGNAL STOP
(.CODE, 6,
.BFR_CNT, .BFR_PTR,
.TKN_CNT, .TKN_PTR,
.AFT_CNT, .STR_PTR
                                                                                                    Signal stop to prevent further msgs
Signal a syntax error
with all the context
                                           END:
                                                                          ! End of routine
```

NCP\$SIG_CMDERR, Save R2 TKN_CNT, TKN_PTR, R1

0235 0288

NCI VO

NCPPRSACT V04-000	Parse Dance De NCPSSIG	cmberr	Action Signal	Rout	ines command syn	tax	erro	or 1	9 S-Sep-1 Sep-1	984 23:51 984 12:48	:04	VAX-11 Bliss-32 V4.0-742 ENCP.SRCJNCPPRSACT.B32;1	Page 11 (4)
			14	AC		51	01	00008		CMPL		STR_PTR	;
		50	14	AC 50	10	AC 51	C1	0000C 0000E 00014		BLSSU ADDL3 CMPL	STR	_CNT, STR_PTR, RO	0290
	10	50 AC	14	AC 50 AC	10	AC 51 51	1E C3 D0	00017 00019 0001F 00024		CMPL BGEQU ADDL3 SUBL3 MOVL	1\$ STR R1,	CNT, STR PTR, RO RO, STR CNT STR PTR	0294 0295 0296
			OC	AC	14 08	80 AC	DO D4	00028 0002A 0002F	1\$:	BRB MOVL CLRL	STR	PTR. TKN PTR	0300 0301 0306
		51	OC	SO AC 1E	00000000.	AC 00 50 51	DQ C3	00032 00039 0003E	25:	MOVL SUBL3	NCP RO BFR	CNT S PRSCMD_DSC+4, RO TKN_PTR, BFR_CNT _CNT, #30	0306
		52	00	AC 51		OA 1E 1E	1B C3 D0	00041 00043 00048		CMPL BLEQU SUBL3 MOVL BRB	#30	, TKN_PTR, BFR_PTR , BFR_CNT	0311 0312
				52 50 1E	10	05 50 AC 50	DO DO D1	0004B 0004D 00050 00054	3\$: 4\$:	BRB MOVL MOVL CMPL BLEQU	RO, STR AFT	BFR_PTR CNT, AFT_CNT CNT, #30	0315 0318 0319
				50 18	000000006	03 1E 00 AC 50	DO E9	00057 00059 0005C 00063 00066	58:	MOVL BLBC PUSHL PUSHL MOVQ PUSHR	#30	AFT CNT \$GL_PMT_Q, 6\$ _PTR _CNT _CNT _CNT, _(SP)	0322 0324 0330
				7E	08	AC 06 06	70 88 00	00068 0006C 0006E		PUSHL MOVQ PUSHR PUSHL	AFT TKN #^M	CNT CNT, -(SP) RR1,R2>	0329 0328 0327
		000	00000G	00	04	AC 80	FB	00070		PUSHL PUSHL CALLS	#8,	E LIB\$SIGNAL	
					14	AC 50	04 00 00	0007A 0007B 0007E	6\$:	RET PUSHL PUSHL	STR	_PTRCNT	0337
				7E	08	AC 06 06	70 88 00	00080 00084 00086		MOVQ PUSHR PUSHL PUSHL CALLS	TKN #^M	TCNT TCNT, -(SP) ZR1,R2>	0336 0335 0334
		000	000006	00	04	AC 80	DD FB O4	00088 0008B 00092		PUSHL CALLS RET	COD!	E LIB\$STOP	0340

```
NCPPRSACT
V04-000
                           Parse Data and Action Routines 15-Sep-1984 23:51:04 ACTSINV_COMMAND Action routine for invalid com 14-Sep-1984 12:48:15
                                                                                                                                                           VAX-11 Bliss-32 V4.0-742
ENCP.SRCJNCPPRSACT.832:1
                                                                                                                                                                                                                          Page
                                         *SBTTL 'ACTSINV COMMAND Action routine for invalid command' GLOBAL ROUTINE ACTSINV COMMAND (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR, CHR, NOM, PARAM) = !
     345
346
347
                                             FUNCTIONAL DESCRIPTION:
     Action routine to signal an invalid command. Signal is either for invalid command or ambiguous command if the AMBIG bit is
                                                        set in the parse options.
                                             FORMAL PARAMETERS:
                           0354
0355
0356
0357
0358
0359
0360
0361
0362
0363
0364
0365
0366
0367
0368
0369
0370
                                                        Parse state table
                                                                                    Value of the parse options
Size of the remainder of the command line
Address of the remainder of the command line
Size of the token in error
                                                        OPT
                                                        STRCNT
                                                        STRPTR
                                                        TKNCNT
                                                        TKNPTR
                                                                                    Address of the token in error
                                             IMPLICIT INPUTS:
                                                        NONE
                                             IMPLICIT OUTPUTS:
                                                       NONE
                                             ROUTINE VALUE:
                                             COMPLETION CODES:
                           0372
0373
0374
0375
0376
0377
0378
0379
0380
0381
                                                       NONE
                                             SIDE EFFECTS:
                                                       NONE
                                                 BEGIN
                                                NCP$SIG_CMDERR | Signal the error ( IF (.OPT AND TPA$M_AMBIG) ! Use the appropriate code
                           0382
0383
0384
0385
0386
0387
0388
0389
0391
0392
                                                                     NEQ 0
                                                               THEN NCPS AMBCMD
ELSE NCPS INVCMD
) OR STSSK SEVERE,
                                                                                                                ! based on the ambiguous option bit
                                                                                                                   Make severe to stop
                                                        .TKNCNT, .TKNPTR, .STRCNT, .STRPTR
                                                                                                                   the token in error
                                                                                                                   the remainder of the command line
                                                 END:
                                                                                                  ! End of routing
```

NC!

NCPPRSACT V04-000	Parse Data and ACTSINV_COMMAND	Action Routine Action routi	s ne for	inval	id com	B 10 15-Sep-198 14-Sep-198	4 23:51 4 12:48	:04 VAX-11 Bliss-32 V4.0-742 :15 [NCP.SRC]NCPPRSACT.B32;1	Page 13 (5)
	09	7E 7E 6C 50 000	08 10 00000G	AC AC 30 8F	00 0000 70 0000 70 0000 E1 0000 D0 0000	0264	ENTRY MOVQ MOVQ BBC MOVL BRB MOVL BISL3 CALLS RET	ACTSINV_COMMAND, Save nothing STRCNT, -(SP) TKNCNT, -(SP) #48, OPT, 1\$ #NCPS_AMBCMD, R0	0342 0389 0388 0384 0383
	76	50 000 50 FF46 CF	00000G	8F 04 05	DO 0001 C9 0001 FB 0002 04 0002	7 18: E 28: 7	MOVL BISL3 CALLS RET	#NCPS_INVCMD_RO #4. RO (SP) #5. NCPSSIG_CMDERR	0387

; Routine Size: 40 bytes, Routine Base: \$CODE\$ + 0123

```
C 10
15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
V04-000
                          Parse Data and Action Routines
ACTSTMPSTR Save a temporary string
                                                                                                                                               VAX-11 Bliss-32 V4.0-742
ENCP.SRCJNCPPRSACT.832;1
                                                                                                                                                                                                                (6)
                                       **SBTTL 'ACTSTMPSTR Save a temporary string' GLOBAL ROUTINE ACTSTMPSTR (OPT, STRCHT, STRPTR, (HR, NUM, PARAM) =
     03945678901234056789901234567899012345678990123456789901234567899004423345678990044233456789900433456789900433456789900433456
TKNCNT, TKNPTR,
                                          FUNCTIONAL DESCRIPTION:
                                                    Action routine to save a temporary string in a descriptor
                                          FORMAL PARAMETERS:
                                                    Parse state table TKNCNT
                                                                              Count of string
Address of string
Address of string descriptor to return
                                                    TKNPTR
                                                    PARAM
                                          IMPLICIT INPUTS:
                                                    NONE
                                          IMPLICIT OUTPUTS:
                                                    NONE
                                          ROUTINE VALUE:
COMPLETION CODES:
                                                    SUCCESS
                                          SIDE EFFECTS:
                                                    NONE
                                             BEGIN
                                                    PARAM : REF VECTOR [2]
                                                                                                       ! Address of string descriptor
                                             PARAM [0] = .TKNCNT;
PARAM [1] = .TKNPTR;
                                                                                                       ! Fill in the string descriptor
                                              RETURN SUCCESS
                                             END:
                                                                                                00000
00002
00006
0000A
0000D
                                                                                         0000
00
70
00
04
                                                                                                                                    ACTSTMPSTR, Save nothing
                                                                                                                                                                                                              0394
                                                                                                                         ENTRY
                                                               50
60
50
                                                                                                                                    PARAM, RO
TKNCNT, (RO)
                                                                              20
                                                                                                                        MOVL
                                                                                      AC
01
                                                                                                                        MOVQ
                                                                                                                                                                                                              0435
0436
                                                                                                                        MOVL
                                                                                                                                     #1, RO
                                                                                                                        RET
 ; Routine Size: 14 bytes,
                                                 Routine Base:
                                                                         $CODE$ + 014B
```

D 10 15-Sep-1984 23:51:04 14-Sep-1984 12:48:15 Parse Data and Action Routines ACTSTMPSTR Save a temporary string NCPPRSACT V04-000 VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1 Page 15 (6)

NCF VO4

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ICPPRSACT	Parse Data and Action Routines ACTSBLNK_SIG Blanks are significant	E 10 15-Sep-1984 23:51:04 14-Sep-1984 12:48:15	VAX-11 Bliss-32 V4.0-742 [NCP.SRCJNCPPRSACT.B32;1	Page 16 (7)
443 4445 445 446 446 446 451 451 451 451 451 451 451 461 463 464 465 466 467 468 467 471 472 473 476 477 478 478 478 481	0437 1 ISBTTL 'ACTSBLNK_SIG Blanks at 0438 1 GLOBAL ROUTINE ACTSBLNK_SIG (OF 0439 1	re significant' TIONS) = ! anks (spaces, tabs) are significant longword ! Blanks are significant	icant	
Routine Si	04 AC 01 50 01 re: 10 bytes, Routine Base: \$CODE\$ + C	04 00009 RET	BBLNK SIG, Save nothing OPTIONS RO	: 0438 : 0472 : 0473 : 0475



NCPPRSACT VO4-000	Parse Data and Action Routines ACT\$ZAPTMPDSC Zero a temporary descriptor G 10 15-Sep-1984 23:51:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:48:15 [NCP.SRC]NCPPRSACT.B32:1	Page 18
NCPPRSACT V04-000 \$22 \$225 \$225 \$225 \$225 \$225 \$225 \$2	ACTSLAPHMPDSC 200 a temporary descriptor 14-sep-1984 23:51:04 YAX-11 81:38-32 V4.0-742 ACTSLAPHMPDSC 200 a temporary descriptor 14-sep-1984 12:48:15 ENCP.SRC)NCPPRSACT.832:1 SEBTIL 'ACTSLAPHMPDSC Zero a temporary descriptor' GLOBAL ROUTINE ACTSLAPHMPDSC (OPTSTRCHT, TEMPIT TRNCTR, TKNPTR, OFFICE CONTROL PARAMETERS: Parse state table PARAM Address of PLIT for addresses of descriptor IMPLICIT INPUTS: NONE IMPLICIT OUTPUTS: NONE ROUTINE VALUE: COMPLETION CODES: SUCCESS SIDE EFFECTS: NONE BEGIN MAP PARAM : REF VECTOR [10] ! Expect a rather long List OFFICE CONTROL PARAM [-1] - 1 PLIT count D. PARAM [-1] - 1 Year the count for the descriptor RETURN SUCCESS END:	Page (9)
	52 20 AC DO 00002 MOVL PARAM, R2 53 FC A2 01 C3 00006 SUBL3 #1, -4(R2), R3 50 D4 0000B CLRL IDX 08 11 0000D BRB 25	0515 0554 0553

NC1 VO4

: 1

NCPPRSACT VO4-000	Parse Data and ACTSZAPTMPDSC	Action Zero a	Routines temporary	descript	or	1	H 10 3-Sep-198 4-Sep-198	4 73:51	: 95	VAX-11 BLISS-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1	Page (9
			51	6240	00	0000F 00013 00015				IDX], R1	055
			53	50 50	D6	00015	28:	INCL			
			50	01	00	0001C		MOVL CLRL INCL CMPL BLEQU MOVL RET	#1, R	0	055 056

Routine Size: 32 bytes. Routine Base: \$CODE\$ + 016D

WCF

NCPPRSACT V04-000	Parse Data ACTSPRMPT	and Action Routines Action routine to prompt	15-Sep-1984 23:51:04 14-Sep-1984 12:48:15	VAX-11 Bliss-32 V4.0-742 ENCP.SRCJNCPPRSACT.B32;1	Page (
627 628 629 630 631 632 633	0618 0619 0620 0621 0622 0623 0624	BEGIN IF .STATUS EQL RMSS EOF THEN SIGNAL STOP (NCPS CMDCAN) ELSE SIGNAL STOP (NCPS CMDERR, END :	! Command canceled if EO! ! Report any other error 0, .STATUS)	r too	
634 635 636	0625 2 0626 2 0627 2 0628 3	STRPTR = .NCPS PRSCMD_DSC [1]: STRCNT = .NCPS_PRSCMD_DSC [0];	! Set parse state to the	e portion	
637 638 639 640	0629 2 0630 2 0631 1	RETURN SUCCESS END:	! And continue with par	se	

000000006	53 00000000° 52 000000006 00 09	000C 00000 00 9E 00002 00 9E 00009 00 FB 00010 50 E8 00017 8F DD 0001A	ENTRY ACTSPRMPT, Save R2,R3 MOVAB NCPS PRSCMD DSC, R3 MOVAB LIBSTOP, R2 CALLS #0, NCPSCMD_TERM_Q BLBS R0, 18	0562 0605
	62 000000006	8F DD 0001A 01 FB 00020	PUSHL #NCPS NOTDONE CALLS #1, LIBSSTOP	0607
		53 DD 00023 18:	PUSHL R3	0611
	000000000	AC DD 00025 00 9F 00028 03 FB 0002E 50 E8 00035 50 D1 00038 0B 12 0003F 8F DD 00041	PUSHL PARAM PUSHAB NCPS CMDBUF_DSC	: 0612 : 0611
00000000G	00 21	03 FB 0002E 50 E8 00035	CALLS #3. NCPSREAD_CMD BLBS STATUS. 3\$ CMPL STATUS, #98938	0616
0001827A	8F	50 D1 00038 0B 12 0003F	CMPL STATUS, #98938 BNEQ 28	0619
	62 000000006	01 FB 00047	PUSHL #NCP\$ CMDCAN CALLS #1, LIB\$STOP BRB 3\$	0620
		0D 11 0004A 50 DD 0004C 2\$: 7E D4 0004E	PUSHL STATUS CLRL -(SP)	0622
	000000006	8F DD 00050 03 FB 00056	PUSHI #NCP\$ CMDFRR	
08	62 AC 50	63 70 00059 38: 01 00 00050 04 00060	CALLS #3, LIBSSTOP MOVQ NCPS PRSCMD_DSC, STRCNT MOVL #1, RO RET	0627 0629 0631

; Routine Size: 97 bytes, Routine Ba

Routine Base: \$CODE\$ + 018D

NCF

NCPPRSACT V04-000	Parse Data and Acti ACTSNUM_RNG Check	on Routines numeric range			1	10 5-Sep- 4-Sep-	1984 23:51 1984 12:48	:04 VAX-11 Bliss-32 V4.0-742 :15 ENCP.SRCJNCPPRSACT.B32;1	Page 23 (11)
	FE7	4 A0 50 7E 7E	0 A(0 O(0 O(0 O(0 O(0 O(0 O(0 O(0 O	01 1A 00 04 7D 7D 05 FB	00002 00006 0000A 0000C 00011 00013 00016 00017 00018	15:	ENTRY MOVL CMPL BLSSU CMPL BGTRU MOVL RET MOVQ PUSHL CALLS CLRL RET	ACTSNUM RNG, Save nothing PARAM, RO NUM, (RO) 15 NUM, 4(RO) 15 W1, RO STRCNT, -(SP) TKNCNT, -(SP) WNCPS PRMRNG W5, NCPSSIG_CMDERR RO	0633 0672 0673 0677 0681 0680 0679

```
NCPPRSACT
V04-000
                      Parse Data and Action Routines
ACT$NUM_RNGSAV Check numeric ranges and store
                                                                                         15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
                                                                                                                           VAX-11 Bliss-32 V4.0-742
ENCP.SRCJNCPPRSACT.B32;1
                                 **SBTTL 'ACTSNUM RNGSAV Check numeric ranges and store value in vector' GLOBAL ROUTINE ACTSNUM RNGSAV (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR, CHR, NOM, PARAM) = !
    0687
0688
0689
0690
0691
0693
0694
0695
0696
0697
                                    FUNCTIONAL DESCRIPTION:
                                            Action routine to check numeric range of numeric parameter and store value in vector.
                                    FORMAL PARAMETERS:
                                             Parse state table
                                                                   Value of the numeric token
                      PARAM
                                                                   Address of range as two long words, low first
                                    IMPLICIT INPUTS:
                                             NONE
                                    IMPLICIT OUTPUTS:
                                             NONE
                                    ROUTINE VALUE:
                                    COMPLETION CODES:
                                            Success or error signal
                                    SIDE EFFECTS:
                                            NONE
                                       BEGIN
                                            PARAM : REF VECTOR [2]
                                                                                         ! Address of UPLIT (low, high)
                                             .NUM GEQU .PARAM [0]
.NUM LEQU .PARAM [1]
                                                                                         ! If inbounds then store
                                       THEN
                                            ! Store the value THEN ! Store the value
                                                  BEGIN
ACT$GA_RNGLST [0] = .ACT$GA_RNGLST [0] + 1;
ACT$GA_RNGLST [.ACT$GA_RNGLST [0]] = .NUM;
END
                                             ELSE
                                                  BEGIN
                                                        If the vector is full then complain
                                                  NCP$SIG_CMDERR
                                                                                                     ! Signal too many ranges
```

NCI

CPPRSACT 04-000	Parse Data and ACT\$NUM_RNGSAN	Action Check	Rout	tines eric ranges	and	st	ore 1	N 10 5-Sep- 4-Sep-	-1984 23:51 -1984 12:48	1:04 8:15	VAX-11 Bliss-32 V4.0-742 [NCP.SRCJNCPPRSACT.B32;1	Page 25
755 756	0744 4 0745 4		(1	NCPS FIELDL TKNCRT, .TK STRCNT, .ST	IM.							
758 759 760 761	0747 4 0748 4 0749 3 0750 3	END);	FAILURE;	REIF				! Fail tr	ransiti	on in parse table	
755 756 757 758 759 760 761 763 765 766 767 768 769 770 771 772 773 774	0752 3 0753 3 0754 3 0755 3	BEGIN NCP\$S	IG C	MDERR PRMRNG, NI, IKNPTR NI, STRPTR			!	Signa	al paramete	er out	of range	
768 769 770 771 772	0757 0758 0759 0760 0761 2	:)		ILURE;			!	Fail	transition	n in pa	rse table	
773	0762 2 RE	TURN SU	CCESS	S;								
			52 50 60	000000000	00 AC	0004 9E 00	00002		ENTRY MOVAB MOVL	PARAM	UM_RNGSAV, Save R2 A_RNGLST, R2 , R0	: 068
		04	60 A0	20 10 10	00 AC AC 28 AC	D1 1F D1	00011		CMPL BLSSU CMPL	NUM, 2\$ NUM,	(RO)	072
			20		21	14	00018		BGTRU	2\$	A_RNGLST, #32	073
			50 6240		62	B6	0001F		CMPW BGEQU INCW MOVZWL	ACT\$G	A_RNGLST A_RNGLST, RO ACT\$GA_RNGLST[RO]	073 073
					25 AC	11 70	00024 00029 00028	18:	MOVW BRB MOVQ MOVQ PUSHL	NUM, 1	ACTSGA_RNGLSTLRUJ	073
			7E 7E	08 10 00000006	AC 8F	70	0002F		MOVQ PUSHL	TKNCN	T, -(SP) T, -(SP) _FIELDLIM	073 074 074 074
			7E 7E	08 10 000000006	62C2CCCACF 6CCACF 6CCCACF 6CCCACF 6CCCACF 6CCCACF 6CCCACF 6CCCACF 6CCCACF 6CCACF 6CCACF 6C	81 186 30 11 70 70 11 70 70 11	00018 00019 00021 00024 00028 00028 00038 00038 00038 00048 00048	28:	BRB MOVQ MOVQ PUSHL CALLS	STRCN TKNCN #NCP\$	T(SP) T(SP) PRMRNG CP\$SIG_CMDERR	075 075 075
		FE27	CF 50		05	11 D0	00049 00048 00050	58: 48:	CALLS BRB MOVL RET CLRL RET	55, N	CP\$SIG_CMDERR	075°
			70		50	04	00053	58.	RET	RO		076

NCI VO

; Routine Size: 87 bytes, Routine Base: \$CODE\$ + 021B

```
NCPPRSACT
V04-000
                        Parse Data and Action Routines
ACTSNUM_SAV Store value in vector
                                                                                                                                         VAX-11 Bliss-32 V4.0-742
ENCP.SRCJNCPPRSACT.B32;1
                                     **XSBTTL 'ACT$NUM SAV Store value in vector'
GLOBAL ROUTINE ACT$NUM SAV (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
CHR, NUM) = !
                         0764
0765
0766
0767
0768
    FUNCTIONAL DESCRIPTION:
                                                 Action routine to store value in vector.
                                        FORMAL PARAMETERS:
                                                  Parse state table
                                                                          Value of the numeric token
                                        IMPLICIT INPUTS:
                                                 NONE
                                        IMPLICIT OUTPUTS:
                                                 NONE
                                        ROUTINE VALUE:
COMPLETION CODES:
                                                 Success or error signal
                                        SIDE EFFECTS:
                                                 NONE
                        0794
0795
0796
0797
0798
0799
0800
                                           BEGIN
IF .ACT$GA_RNGLST [0] LSS ACT$C_RNGLSTMAX
                                                 BEGIN
ACT$GA_RNGLST [0] = .ACT$GA_RNGLST [0] + 1;
ACT$GA_RNGLST [.ACT$GA_RNGLST [0] ]= .NUM;
                        0801
0802
0803
0804
0805
                                           ELSE
                                                 BEGIN
                        0806
0807
0808
0809
                                                        If the vector is full then complain
                                                 NCP$SIG_CMDERR
(NCP$ FIELDLIM,
.TKNCNT, .TKNPTR,
.STRCNT, .STRPTR
                                                                                                   ! Signal too many ranges
                         0810
0811
0812
0813
0814
0815
0816
                                                  RETURN FAILURE:
                                                                                                   ! Fail transition in parse table
                                                 END:
                                           RETURN SUCCESS:
                                           END:
```

: 1

: R

NCPPRSACT V04-000	Parse Data and Action Routines ACT\$NUM_SAV Store value in vector		C 11 15-Sep-1984 23:51:04 YAX-11 BLiss-32 V4.0-742 14-Sep-1984 12:48:15 [NCP.SRCJNCPPRSACT.B32;1		Page 27 (13)
	FDF1	52 00000000° 50 10 6240 10 7E 08 7E 000000006 CF 50	0004 00000 00 9E 00002 62 B1 00009 0C 1E 0000C 62 B6 0000E 62 3C 00010 AC B0 00013 15 11 00018 AC 7D 0001E 8F DD 00022 05 FB 00028 04 11 0002D 01 D0 0002F 2\$: 50 D4 00033 3\$:	MOVAB ACTSNUM SAV, Save R2 MOVAB ACTSGA_RNGLST, R2 CMPW ACTSGA_RNGLST, W32 BGEQU 1\$ INCW ACTSGA_RNGLST MOVZWL ACTSGA_RNGLST, R0 MOVW NUM, ACTSGA_RNGLST[R0] BRB 2\$ MOVQ STRCNT, -(SP) MOVQ TKNCNT, -(SP) PUSHL WNCPS_FIELDLIM CALLS W5, NCPSSIG_CMDERR BRB 3\$ MOVL W1, R0 RET CLRL R0 RET	0765 0798 0801 0802 0798 0812 0811 0810 0814 0817

; Routine Size: 54 bytes, Routine Base: \$CODE\$ + 0272

7

NCPI VO4

```
NCPPRSACT
                              Parse Data and Action Routines
ACTSSTR_LEN Check string length
                                                                                                                                                                     VAX-11 Bliss-32 V4.0-742
ENCP.SRCJNCPPRSACT.B32:1
V04-000
                                            **SBTTL 'ACTSSTR LEN Check string length'
GLOBAL ROUTINE ACTSSTR LEN (OPT, STRCHT, STRPTR, TKNCHT, TKNPTR,
CHR, NUM, PARAM) = !
     08334567890123456789012345567890123456789012345678901234567890123456789
                                                FUNCTIONAL DESCRIPTION:
                                                           Action routine to check length of a string token. Length is checked for strings with trailing spaces and quoted strings. Trailing spaces and tabs are removed and quoted strings which must begin with a "are counted with the quotes parsed correctly.
                                                 FORMAL PARAMETERS:
                                                            Parse state table TKNCNT
                              0834
0835
0836
0837
0837
0837
0837
0844
0844
0844
0844
0851
0853
                                                                                                          Length of the string token
                                                            PARAM
                                                                                                          Value of the maximum length of token
                                                 IMPLICIT INPUTS:
                                                            NONE
                                                 IMPLICIT OUTPUTS:
                                                            NONE
                                                ROUTINE VALUE:
COMPLETION CODES:
     860
861
862
863
864
865
866
869
870
871
                                                            Success or error signal
                                                SIDE EFFECTS:
                                                            NONE
                              0854
0855
0856
0857
0858
0859
0861
0863
0864
0865
0866
0867
0868
0869
0870
                                                    BEGIN
     LOCAL
                                                                                                                            Point into token
                                                                                                                           End of token
Size of string
                                                            PEND.
                                                            CTR
                                                     IF CHSRCHAR (.TKNPTR) EQL ""
                                                                                                                        ! Quoted string?
                                                     THEN
                                                            BEGIN
                                                            CTR = 0
                                                                                                                        ! Setup counters and pointers
                                                            PTR = .TKNPTR + 1:
                                                            PEND = .TKNPTR + .TKNCNT;
WHILE .PTR LSS .PEND
                                                                                                                         ! Scan string
                                                                          CHSRCHAR_A (PTR) EQL '" ! Quote inside?
                                                                    THEN
```

```
15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
V04-000
                          Parse Data and Action Routines
ACTSSTR_LEN Check string length
                                                                                                                                                VAX-11 Bliss-32 V4.0-742
ENCP.SRCJNCPPRSACT.B32;1
                                                                                                                                                                                                           Page 29 (14)
    889
890
891
893
893
893
896
898
899
901
903
906
907
908
909
                                                                 BEGIN
IF CHSRCHAR (.PTR) EQL
                          PTR LSS .PEND
THEN PTR = .PTR + 1
ELSE EXITLOOP
END
                                                                                                            Count one quote for two Single quote ends it
                                                           CTR = .CTR + 1
                                                           END
                                                    END
                                             ELSE
                                                    BEGIN
PTR = .TKNPTR + .TKNCNT - 1;
WHILE PTR GTRU .TKNPTR
                                                                                                         ! Strip trailing spaces from token
                                                           CHSRCHAR (.PTR) EQL " "
                                                                                                         ! Space
                                                           CHSRCHAR (.PTR) EQL 9
                                                                                                         ! Tab
                                                    DO
                                                           PTR = .PTR - 1
    912
913
                                                          = (.PTR + 1) - .TKNPTR
                                                                                                         ! Compute real size of token
    914
915
                                             :
    916
917
                                                  .CTR LEQU .PARAM
                                                                                                         ! Check size of token
    918
919
                                              THEN
                                                    RETURN SUCCESS
    920
921
922
923
924
925
926
927
928
929
930
                                             ELSE
                                                   BEGIN
NCP$SIG CMDERR
(NCP$ PRMLEN,
TKNCNT, TKNPTR,
                                                                                                         ! Signal to print error message
                                                           .STRCNT, .STRPTR
                                                    RETURN FAILURE
                                                                                                        ! fail transition in parse table
                                                    END
                                             END:
                                                                                                                                      ACTSSTR_LEN, Save R2,R3
#4, SP
TKNPTR, R2
TKNCNT, R2, R1
(R2), #34
                                                                                                                         ENTRY
SUBL2
                                                                                                                                                                                                                  0820
                                                                                          000C
                                                                                             C20019120491
                                                                                                                                                                                                                 0865
0870
0865
                                                                                                                         MOVL
ADDL3
                                                                               14
                                         51
                                                                                                                         CMPB
                                                                                                                         BNEQ
                                                                                                                                      ČŤR
1(R2), PTR
PTR, PEND
                                                                                                                                                                                                                 0868
0869
0871
                                                                                                                          CLRL
                                                                6E
51
                                                                               01
                                                                                                                         MOVAB
                                                                                                                         CMPL
```

NCPPRSACT V04-C00	Parse Data and Action Routines ACTSSTR_LEN Check string length				F 11 15-Sep-1984 23:51:04			
			53 00	40 BE 55 00 BE	18 0001C 9A 0001E	BGEQ MOVZBL Incl	7\$ aptr, R3 ptr R3, #34	0874
			22	53	91 00024	CMPB	R3. #34	
			22 00	BE	91 00027	CMPB	APTR, #34	0877
			51	SA SE	D1 0002F	CMPL	75 PTR, PEND	0879
				6E 50 DF	18 00032 06 00034 06 00036 11 00038	CMPB BNEQ CMPB BNEQ CMPL BGEQ INCL	7\$ PTR CTR	0880 0884
			6E FF 51 51	A1 652 10 806 804	9E 0003A 9E 0003E D1 00041 1E 00044	BRB 3\$: MOVAB 4\$: MOVAB CMPL	-1(R1) PTR PTR, R1 R2, R1 6\$	0889 0890
			20 00	10 BE	91 00046	CMPL BGEQU CMPB BEQL CMPB BNEQ S\$: DECL BRB 6\$: SUBL3 MOVAB	aptr, #32	0893
			09 00	BE BE	13 0004A 91 0004C 12 00050	CMPB	5\$ aptr, #9	0895
				6E	D7 00052 !	58: DECL	PTR	0898
	51		6E	6E E8 52	11 00054 C3 00056 9E 0005A	6\$: SUBL3	4\$ R2, PTR, R1	0900
		20	6E 50 01 AC		9E 0005A	7\$: CMPL BGTRU	RŽ, PTR, R1 1(R1), ČTR CTR, PARAM	0904
			50	01	D1 0005E 1A 00062 D0 00064 04 00067	MOVL RET	8\$ #1, RO	0908
			7E 08	AC 52	7D 00068 (BS: MOVQ PUSHL	STRCNT, -(SP)	0912 0911
			000000000	8F 05 50	DD 0006E DD 00071	PUSHL PUSHL CALLS	TKNCNT #NCPS_PRMLEN	0910
		FD6C	CF	50	DD 0006E DD 00071 FB 00077 D4 0007C 04 0007E	CALLS CLRL RET	WS, NCPSSIG_CMDERR	0915 0918

; Routine Size: 127 bytes, Routine Base: \$CODE\$ + 02A8

V04

; R

```
6 11
15-Sep-1984 23:51:04
14-Sep-1984 12:48:15
NCPPRSACT
V04-000
                        Parse Data and Action Routines
ACTSNXT_STATE Set next state table for parse
                                                                                                                                     VAX-11 Bliss-32 V4.0-742
ENCP.SRCJNCPPRSACT.B32;1
                                                                                                                                                                                           Page 31 (15)
                                    **SBTTL 'ACTSNXT STATE Set next state table for parse'
GLOBAL ROUTINE ACTSNXT STATE (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
(HR, NOM, PARAM) = !
                        FUNCTIONAL DESCRIPTION:
                                                Setup pointers to skip to another state table to finish parse
                                       FORMAL PARAMETERS:
                                                Parse state table
PARAM
                                                                         Address of address pair - state_table, key_table
                                       IMPLICIT INPUTS:
                                                NONE
                                       IMPLICIT OUTPUTS:
                                                NONE
                                       ROUTINE VALUE:
COMPLETION CODES:
                                                Success
                                       SIDE EFFECTS:
                                                NONE
                                          BEGIN
                                                PARAM : REF VECTOR
                                          NCPS_NXT_STATE [0] = .PARAM
NCPS_NXT_STATE [1] = .PARAM
RETURN SUCCESS
                                                                                                    State table address
                                                                                                    Key table address
                                          END:
                                                                                          00000
00002
00006
00000
00010
                                                                                                                           ACT$NXT_STATE, Save nothing PARAM, RO (RO), NCP$_NXT_STATE #1, RO
                                                                                   0000
D0
7D
                                                                                                                                                                                                 0920
0958
                                                                                                                .ENTRY
                                                                                                                MOVL
                                           000000000
                                                                                                                MOVQ
                                                                                                                                                                                                 0960
                                                                                      04
                                                                                                                MOVL
                                                                                                                RET
```

; Routine Size: 17 bytes, Routine Base: \$CODE\$ + 0327

N 11 15-Sep-1984 23:51:04 14-Sep-1984 12:48:15 VAX-11 BLiss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1 Parse Data and Action Routines ACTSNXT_STATE Set next state table for parse Page (15) NCPPRSACT

NCP VO4

. .

Parse Data and Action Routines 15-Sep-1984 23:51:04 VAX-11 Bliss-32 V4.0-742 ACTSWRI_STR Write a string to the output devic 14-Sep-1984 12:48:15 [NCP.SRC]NCPPRSACT.B32;1	Page 33 (16)
O963 O964 O965 O966 O966 O966 O967 O968 O969 O970 O971 O977 O977 O977 O977 O977 O977 O977	
0000 00000 .ENTRY ACTSWRI STR. Save nothing	: 0964 : 0999
	O966 O967 O968 O969 O970 O971 O971 O972 O975 O976 O976 O977 O977 O977 O977 O977 O978 O979 O979

: 1

NCPPRSACT VO4-000	Parse Data and Action Routines ACTSSIGNAL Signal and error from parse	11 15-Sep-1984 23:51:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:48:15 [NCP.SRCJNCPPRSACT.B32;1	Page 34 (17)
1019 1020 1021 1023 1024 1025 1026 1027 1028 1029 1030 1031 1035 1037 1038 1040 1041 1042 1043 1044 1044 1044 1044 1045 1044 1046 1047 1048 1050 1051 1053 1055 1056 1057 1058 1059	1003 ISBITL 'ACTSSIGNAL Signal and eloy (OPT, Signal and error from particle) Functional description: Signal and error from particle Formal parameters: 1013 Formal parameters: 1014 Parameters: 1015 Parse state table parameters: 1016 Implicit inputs: 1016 Implicit outputs: 1020 Implicit outputs: 1021 Implicit outputs: 1022 1023 Routine value: 1024 1025 Routine value: 1026 1027 1028 Success 1029 1030 Side effects: 1031 1034 1035 1036 1037 1038 1037 1038 1037 1038 1037 1038 1037 1038 1037 1038 1037 1038 1037 1038 1037 1038 1037 1038 1037 1038 1037 1038 1037 1038 1037 1038 1037 1038 1037 1038 1037 1038 1037 1038	TRENT, STRPTR, TKNCNT, TKNPTR,	
; Routine Sia	000000006 00 20 AC 01 01	.ENTRY ACT\$SIGNAL, Save nothing DD 00002 PUSHL PARAM FB 00005 CALLS #1, LIB\$SIGNAL DO 0000C MOVL #1, R0 04 0000F RET	1004 1039 1041 1043



ACTSPMT ON, Save nothing #1, ACTSGL_PMT_Q 00000000. MOVL

: 1045 : 1082

NCPPRSACT V04-000 Parse Data and Action Routines ACTSPMT_ON Enable prompting 15-Sep-1984 23:51:04

VAX-11 Bliss-32 V4.0-742 [NCP.SRC]NCPPRSACT.B32;1

Page 36

50

01 00 00009 04 0000C MOVL #1, RO

: 1084 : 1086 NCF VO4

; Routine Size: 13 bytes, Routine Base: \$CODE\$ + 0358

•

NCPPRSACT V04-000	Parse Data and Action Routines ACTSPMT_OFF Disable prompting	M 11 15-Sep-1984 23:51:04 14-Sep-1984 12:48:15	VAX-11 Bliss-32 V4.0-742 ENCP.SRCJNCPPRSACT.B32;1	Page 37 (19)
1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138	1087 SSBTTL 'ACTSPMT OFF Disable p 1088 GLOBAL ROUTINE ACTSPMT_OFF = 1089 1090 ++ 1091 FUNCTIONAL DESCRIPTION: 1092 Action routine to disab 1094 FORMAL PARAMETERS: 1096 NONE 1097 NONE 1098 IMPLICIT INPUTS: 1000 NONE 1101 ROUTINE VALUE: 1103 ROUTINE VALUE: 1106 COMPLETION CODES: 1109 Success 1111 Success 1112 SIDE EFFECTS: 1113 NONE 1115 IMPLICIT OUTPUTS: 1116 COMPLETION CODES: 1117 Success 1118 BEGIN 1199 ACTSGL_PMT_Q = FALSE;	rompting'		
1139 1140 1141 1142	1121 2 1122 2 RETURN SUCCESS 1123 2 1124 1 END;	! Continue the parse		
	50 00000000G 00 01	0000 00000 .ENTRY ACT! 04 00002 .CLRL ACT! 00 00008	SPMT_OFF, Save nothing SGL_PMT_0 RO	1088 1120 1122 1124

NCP VO4

NCP VO4

NCPPRSACT V04-000	Parse Data ACTSPMT_Q	and Action Control com	Routin	es rompting			1	B 12 5-Sep- 4-Sep-	1984 23:51 1984 12:48	1:04 VAX-11 Bliss-32 V4.0-7 B:15 [NCP.SRC]NCPPRSACT.B3	742 Page 39 2;1 (20)
1201	1182 2	END;									
			16 00	000000G	AC OA	0000 E9 D5 13	00000 00002 00009 00000		ENTRY BLBC TSTL BEQL PUSHL CALLS	ACTSPMT Q, Save nothing ACTSGL_PMT_Q, 28 PARAM 18	1126 1170 1173
		000000006	00 50	20	AC 01 AC 01	DD FB D4 D0 04	0000E 00011 00018 0001B 0001E	18:	MOVL RET	PARAM #1, LIB\$SIGNAL STRCNT #1, RO	1174 1176 1181
: Routine Si	ze: 34 bytes,	Routine	Base:	\$CODE\$	50 + 03	D4 04 371	0001F 00021	28:	RET	RO	1183

NCP!

C 12 15-Sep-1984 23:51:04 14-Sep-1984 12:48:15 NCPPRSACT V04-000 Parse Data and Action Routines ACTSEXECQ Test if Component is Executor VAX-11 Bliss-32 V4.0-742 ENCP.SRCJNCPPRSACT.832;1 1204 1205 1206 1207 1208 1209 1210 **SBTTL 'ACTSEXECQ Test if Component is Executor'
GLOBAL ROUTINE ACTSEXECQ (OPT, STRCNT, STRPTR, TKNCNT, TKNPTR,
CHR, NUM, PDB) = FUNCTIONAL DESCRIPTION: Action routine to test if the current node component is the executor node. Called from the ncpstanod module to select the correct parameters for prompting. The executor is coded as an address of zero, that is three data bytes of zero. FORMAL PARAMETERS: Parse state table PDB Address of PDB data block for the component. IMPLICIT INPUTS: NONE IMPLICIT OUTPUTS: NONE ROUTINE VALUE: COMPLETION CODES: Success if component is executor node, failure if not SIDE EFFECTS: NONE BEGIN PDB : REF BBLOCK [PDB\$C_SIZE] ! Pointer to the component PDB IF .PDB [1, 0, 24, 0] EQL 0 ! Look at three bytes of the data RETURN SUCCESS ! It is the executor RETURN FAILURE ! Cause failure in state END:

0000 00000

.ENTRY ACTSEXECQ, Save nothing

: 1185

R

NCP

NCPPRSACT V04-000		Parse Da ACTSEXEC	ta	and Action Routines Test if Component is	Execu	utor		12	12 -Sep-1 -Sep-1	984 23:51 1984 12:48	:04	VAX-11 BLiss-32 V4.0-742 ENCP.SRCJNCPPRSACT.B32;1	Page 41 (21)
	00	01	AO	50 18 50	20	AC 00 04 01 50	DŌ	00002 00006 0000C 0000E 00011 00012 00014				R0 #24, 1(R0), #0 R0	1227 1232 1234

; Routine Size: 21 bytes, Routine Base: \$CODE\$ + 0393

.PSECT \$PLIT\$, NOWRT, NOEXE, 2

NCPS VO4-

•

45 4E 4F 44 5F 00000 P.AAA: .ASCII _DONE\

.PSECT \$CODE\$, NOWRT, 2

NCPPRSACT V04-000		Parse Data and ACTSPMTDONEQ	Action Termina	Routines te Prompts?			1	12 -Sep-	1984 23:51 1984 12:48	:04 VAX-11 BLiss-32 V4.0-74 B:15 [NCP.SRC]NCPPRSACT.B32;	2 Page	e (22)
05	5	00	14	BC 00000000°	AC 00	00C	00000 \$0000		ENTRY CMPC5	ACTSPMTDONED, Save R2,R3 TKNCNT, aTKNPTR, #0, #5, P.AA	IA .	1236 1274
				50	04	12	0000E 00010 00013		BNEQ MOVL RET CLRL RET	1\$ #1, RO		1278
					50	04	00014	18:	CLRL	RO	•	1280

; Routine Size: 23 bytes, Routine Base: \$CODE\$ + 03A8

. .

; R

NCP VO4

NCPPRSACT V04-000	Parse Data and Action ACTSHELP Provide pro	Routines mpting help	H 12 15-Sep-1984 23:51 14-Sep-1984 12:48	Page 45 (23)	
	50 4	C 45 48 50 43 4E 00000007 00000000	.PSECT 00005 P.AAC: .ASCII 0000C P.AAB: .LONG .ADDRES	\$PLIT\$, NOWRT, NOEXE, 2 \NCPHELP\ 7 SS P.AAC	•
08	00	5E 08 AC BC AC DC	0000A 0 0000B MOVW 0 0000F MOVL F 00014 PUSHAB 6 0001A CLRL F 0001C PUSHAB	SCODES, NOWRT, 2 ACTSHELP, Save R2, R3, R4, R5 #8, SP #0, (SP), #0, #8, HLP_DESC STRCNT, HLP_DESC STRPTR, HLP_DESC+4 LIBSGET_INPOT -(SP) P.AAB HLP_DESC	1283 1321 1322 1323 1330 1331 1330
	000000006	000000000 7E DA 00 00 9F 00 06 FE 50 E 50 DI 50 01 FE 50 01	3 0002D CALLS 3 00034 BLBS 5 00037 PUSHL 3 00039 CALLS	-(SP) LIB\$PUT_OUTPUT #6, LBR\$OUTPUT_HELP STATUS, 1\$ STATUS #1, LIB\$SIGNAL #1, R0	1333 1335 1336

SRELL

NCP:

NCPPRSACT V04-000 Parse Data and Action Routines ACTSHELP Provide prompting help VAX-11 Bliss-32 V4.0-742 ENCP.SRCJNCPPRSACT.832;1 Page 46 (24) : 1360 1337 1 END 1338 0 ELUDOM !End of module .EXTRN LIB\$SIGNAL, LIB\$STOP PSECT SUMMARY Attributes Name Bytes SGLOBALS SOWNS SCODES NOVEC. WRT. RD .NOEXE.NOSHR. NOVEC. WRT. RD .NOEXE.NOSHR. NOVEC.NOWRT. RD . EXE.NOSHR. NOVEC.NOWRT.NORD .NOEXE.NOSHR. NOVEC.NOWRT, RD .NOEXE.NOSHR. LCL, LCL, LCL, LCL, CON, NOPIC, ALIGN(2) ABS. SPLITS Library Statistics ----- Symbols -----Processing Pages File Percent Time Total Loaded Mapped _\$255\$DUA28:[NCP.OBJ]NCPLIBRY.L32;1 _\$255\$DUA28:[SYSLIB]STARLET.L32;1 00:00.1 52 581 COMMAND QUALIFIERS BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:NCPPRSACT/OBJ=OBJ\$:NCPPRSACT MSRC\$:NCPPRSACT/UPDATE=(ENH\$:NCPPRSACT)

1027 code + 144 data bytes 00:21.0 01:23.1 Size: Run Time:

Elapsed Time: 01:23. Lines/CPU Min: 3819 Lexemes/CPU-Min: 11009 Memory Used: 87 pages Compilation Complete

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